## **AMENDMENTS TO THE CLAIMS**

(Currently Amended) A burner assembly, comprising:
 a duct;

a burner disposed within the duct, the burner including a gas manifold and first and second baffles extending therefrom and defining a combustion chamber; and

a protective chamber disposed within the duct and including a profile opening adapted to receive a flame from the burner, the protective chamber being downstream relative to, and separated and spaced away from, the burner.

- 2. (Original) The burner assembly of claim 1, wherein the first and second baffles each include a plurality of apertures.
- 3. (Original) The burner assembly of claim 1, wherein protective chamber includes imperforate walls.
- 4. (Original) The burner assembly of claim 1, wherein the combustion chamber is wedged shaped.
- 5. (Original) The burner assembly of claim 1, wherein the protective chamber includes a face plate and side panels disposed perpendicular to each other.
- 6. (Original) The burner assembly of claim 3, wherein the face place is perpendicular to a longitudinal axis of the duct.
- 7. (Currently Amended) The burner assembly of claim 4 6, further including first and second panels slidably mounted to the face plate.

8. (Original) The burner assembly of claim 1, wherein the burner is adapted to produce a flame extending past the baffles by a length  $\alpha$ , and wherein the protective chamber extends past the first and second baffles by a distance greater than  $\alpha$ .

- 9. (Original) The burner assembly of claim 1, wherein the face plate includes a top, a bottom, and first and second sides defining the profile opening, the burner being disposed on an upstream side of the profile opening, the protective chamber sides being disposed on a downstream side of the profile opening.
- 10. (Original) The burner assembly of claim 9, wherein the face plate top and bottom are spaced from the burner by a distance  $\Delta$ , and the face plate first and second sides are spaced from the burner by a distance  $\gamma$ , the distances  $\Delta$  and  $\gamma$  being fixed.
- 11. (Original) The burner assembly of claim 1, wherein the protective chamber and duct define first and second plenums flanking the protective chamber.

12. (Original) A burner assembly, comprising: an air duct;

an interior wall spanning across an interior of the air duct, the interior wall having at least three openings, a first opening in an interior of the wall, the second and third openings flanking the wall;

a burner having a combustion chamber and a flame outlet, the flame outlet being positioned proximate the interior wall first opening; and

first and second side walls extending from the interior wall away from the burner.

- 13. (Original) The burner assembly of claim 12, wherein the burner is adapted to generate a flame extending past the combustion chamber by a distance  $\alpha$ , the first and second side walls extending past the interior wall by a distance greater than  $\alpha$ .
- 14. (Original) The burner assembly of claim 12, wherein the burner includes a gas manifold having perforated baffles extending therefrom, the combustion chamber being wedge-shaped.
- 15. (Original) The burner assembly of claim 12, further including a blower within the air duct.

16. (Currently Amended) A burner assembly, comprising:

an air duct adapted to direct heated air and products of combustion to a space to be heated;

a gas supply disposed within the air duct;

an ignition means proximate the gas supply;

a combustion chamber downstream of the gas supply;

a protective chamber downstream of the combustion chamber, the protective chamber including a profile opening, the protective chamber being separate and spaced away from the combustion chamber; and

first and second air plenums flanking the protective chamber.

- 17. (Original) The burner assembly of claim 16, wherein the combustion chamber is formed by a gas manifold and first and second baffles extending from the gas manifold, the first and second baffles including a plurality of apertures, combustion air for the combustion chamber entering through the plurality of baffle apertures.
- 18. (Original) The burner assembly of claim 16, wherein the protective chamber is formed by a face plate, first and second sides depending from the face plate and a top and bottom of the duct.
- 19. (Original) The burner assembly of claim 18, further including first and second slidable panels mounted to the face plate.
- 20. (Original) The burner assembly of claim 17, further including gaps between the profile opening and the baffles, the dimensions of the gaps being predetermined.